CIVIL PRO
AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

# TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

: CP-2022-07-01-04

Date: 09/07/2022

ID :
ect Name : Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.

ncy : Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

tomer's Reference : BBMP/EE/BTP/WO/02/2021-22

e of Receipt : 04-07-22

tomer ID : Drain Side Wall - Moto Work Oppo. (W1299)

ple Type /Size : 150X150X150 mm

ple grade/Age : M20 / 7 Days Compressive Strength

rence to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

of test : 09/07/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Drain Side Wall - Moto Work Oppo. (W1299) | M20 | 02/07/2022 | 09/07/2022 | 150.40 X 149.31 X 151.93 | 22456 | 9.000 | 423.0 | 18.8 | 18.8 |
| Drain Side Wall - Moto Work Oppo. (W1299) | M20 | 02/07/2022 | 09/07/2022 | 151.41 X 150.87 X 149.99 | 22844 | 8.524 | 427.1 | 18.7 | |
| Drain Side Wall - Moto Work Oppo. (W1299) | M20 | 02/07/2022 | 09/07/2022 | 150.90 X 149.22 X 149.26 | 22516 | 8.157 | 425.9 | 18.9 | |

results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು



****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

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AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
# 4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

D : CP-2022-07-01-04 **Date: 30/07/2022**

t Name : Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06

y : Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

mer's Reference : BBMP/EE/BTP/WO/02/2021-22

f Receipt : 04-07-22

mer ID : Drain Side Wall - Moto Work Oppo. (W1299)

e Type /Size : 150X150X150 mm

e grade/Age : M20 / 28 Days Compressive Strength

nce to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

f test : 30/07/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Drain Side Wall - Moto Work Oppo. (W1299) | M20 | 02/07/2022 | 30/07/2022 | 151.59 X 149.49 X 149.91 | 22661 | 9.099 | 542.2 | 23.9 | 23.6 |
| Drain Side Wall - Moto Work Oppo. (W1299) | M20 | 02/07/2022 | 30/07/2022 | 149.08 X 150.93 X 151.42 | 22500 | 8.729 | 515.9 | 22.9 | |
| Drain Side Wall - Moto Work Oppo. (W1299) | M20 | 02/07/2022 | 30/07/2022 | 149.82 X 149.80 X 150.37 | 22444 | 8.983 | 535.3 | 23.8 | |

sults obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

**FOR CIVIL Pro.**

**R KARTHIK RECHAN**
Authorized Signatory
**Quality Manager**

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26


****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-07-01-04 **Date: 09/07/2022**

ame : Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.

: Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

's Reference : BBMP/EE/BTP/WO/02/2021-22

eceipt : 04-07-22

-ID : Drain Side Wall - Moto Work Oppo. (W1299)

ype /Size : 150X150X150 mm

rade/Age : M20 / 7 Days Compressive Strength

e to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

st : 09/07/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| rain Side Wall - oto Work Oppo. (W1299) | M20 | 02/07/2022 | 09/07/2022 | 151.59 X 150.91 X 150.93 | 22877 | 8.568 | 428.7 | 18.7 | 18.8 |
| rain Side Wall - oto Work Oppo. (W1299) | M20 | 02/07/2022 | 09/07/2022 | 151.97 X 149.87 X 150.64 | 22776 | 8.484 | 432.1 | 19.0 | |
| rain Side Wall - oto Work Oppo. (W1299) | M20 | 02/07/2022 | 09/07/2022 | 149.13 X 149.96 X 151.44 | 22365 | 8.178 | 417.4 | 18.7 | |

lts obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

**FOR CIVIL Pro.**

**R KARTHIK RECHAN**
Authorized Signatory
**Quality Manager**

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26


****End of Report****

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| ID | : | CP-2022-07-01-04 **Date: 30/07/2022** |
| ect Name | : | Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 |
| ncy | : | Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045 |
| omer's Reference | : | BBMP/EE/BTP/WO/02/2021-22 |
| of Receipt | : | 04-07-22 |
| omer ID | : | Drain Side Wall - Moto Work Oppo. (W1299) |
| ple Type /Size | : | 150X150X150 mm |
| ple grade/Age | : | M20 / 28 Days Compressive Strength |
| rence to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| of test | : | 30/07/2022 |

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Drain Side Wall - Moto Work Oppo. (W1299) | M20 | 02/07/2022 | 30/07/2022 | 151.44 X 150.48 X 149.32 | 22788 | 8.575 | 526.1 | 23.1 | 23.0 |
| Drain Side Wall - Moto Work Oppo. (W1299) | M20 | 02/07/2022 | 30/07/2022 | 151.34 X 151.51 X 151.23 | 22928 | 8.861 | 521.6 | 22.7 | |
| Drain Side Wall - Moto Work Oppo. (W1299) | M20 | 02/07/2022 | 30/07/2022 | 149.98 X 149.45 X 149.43 | 22414 | 9.083 | 519.8 | 23.2 | |

results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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Authorized Signatory
Quality Manager

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು



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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-07-01-04

**Date: 09/07/2022**

Name : Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.

: Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

er's Reference : BBMP/EE/BTP/WO/02/2021-22

Receipt : 04-07-22

er ID : Drain Side Wall - Moto Work Oppo. (W1299)

Type /Size : 150X150X150 mm

grade/Age : M20 / 7 Days Compressive Strength

ce to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

test : 09/07/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|---|---|---|---|---|---|---|---|---|---|
| | | | | (mm) | (Sq.mm) | (kg) | (KN) | ($N/mm^2$) | ($N/mm^2$) |
| Drain Side Wall - Moto Work Oppo. (W1299) | M20 | 02/07/2022 | 09/07/2022 | 150.15 X 151.66 X 151.20 | 22773 | 8.949 | 421.4 | 18.5 | 18.6 |
| Drain Side Wall - Moto Work Oppo. (W1299) | M20 | 02/07/2022 | 09/07/2022 | 151.68 X 151.25 X 151.57 | 22942 | 9.021 | 433.4 | 18.9 | |
| Drain Side Wall - Moto Work Oppo. (W1299) | M20 | 02/07/2022 | 09/07/2022 | 149.04 X 149.36 X 151.54 | 22261 | 8.348 | 407.7 | 18.3 | |

sults obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು.
ಬ್ಯಾಟರಾಯನಪುರ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು

**FOR CIVIL Pro.**

**R KARTHIK RECHAN**
Authorized Signatory
**Quality Manager**



****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-07-01-04 **Date: 30/07/2022**

t Name : Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06

: Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

ner's Reference : BBMP/EE/BTP/WO/02/2021-22

f Receipt : 04-07-22

ner ID : Drain Side Wall - Moto Work Oppo. (W1299)

e Type /Size : 150X150X150 mm

e grade/Age : M20 / 28 Days Compressive Strength

nce to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

f test : 30/07/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Drain Side Wall - Moto Work Oppo. (W1299) | M20 | 02/07/2022 | 30/07/2022 | 151.39 X 151.00 X 149.96 | 22860 | 8.175 | 539.9 | 23.6 | 23.2 |
| Drain Side Wall - Moto Work Oppo. (W1299) | M20 | 02/07/2022 | 30/07/2022 | 150.55 X 151.83 X 149.64 | 22858 | 8.564 | 521.1 | 22.8 | |
| Drain Side Wall - Moto Work Oppo. (W1299) | M20 | 02/07/2022 | 30/07/2022 | 149.07 X 149.86 X 151.77 | 22340 | 9.075 | 517.3 | 23.2 | |

results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26


***End of Report***

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-07-01-04 **Date: 09/07/2022**

Name : Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.

: Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

er's Reference : BBMP/EE/BTP/WO/02/2021-22

Receipt : 04-07-22

er ID : Drain Side Wall - Moto Work Oppo. (W1299)

Type /Size : 150X150X150 mm

grade/Age : M20 / 7 Days Compressive Strength

ce to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

est : 09/07/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Drain Side Wall - Moto Work Oppo. (W1299) | M20 | 02/07/2022 | 09/07/2022 | 151.80 X 151.65 X 149.21 | 23022 | 8.685 | 431.6 | 18.7 | 18.5 |
| Drain Side Wall - Moto Work Oppo. (W1299) | M20 | 02/07/2022 | 09/07/2022 | 151.19 X 150.65 X 150.79 | 22777 | 9.028 | 417.6 | 18.3 | |
| Drain Side Wall - Moto Work Oppo. (W1299) | M20 | 02/07/2022 | 09/07/2022 | 151.47 X 149.56 X 149.24 | 22654 | 8.973 | 419.7 | 18.5 | |

ults obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-24

**FOR CIVIL Pro.**

**R KARTHIK RECHAN**
Authorized Signatory
**Quality Manager**


****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-07-01-04 **Date: 30/07/2022**

Name : Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06

: Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

er's Reference : BBMP/EE/BTP/WO/02/2021-22

Receipt : 04-07-22

er ID : Drain Side Wall - Moto Work Oppo. (W1299)

Type /Size : 150X150X150 mm

grade/Age : M20 / 28 Days Compressive Strength

ce to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

test : 30/07/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Drain Side Wall - Moto Work Oppo. (W1299) | M20 | 02/07/2022 | 30/07/2022 | 150.87 X 150.48 X 149.62 | 22703 | 8.501 | 523.9 | 23.1 | 23.0 |
| Drain Side Wall - Moto Work Oppo. (W1299) | M20 | 02/07/2022 | 30/07/2022 | 149.79 X 150.48 X 149.42 | 22540 | 8.357 | 506.2 | 22.5 | |
| Drain Side Wall - Moto Work Oppo. (W1299) | M20 | 02/07/2022 | 30/07/2022 | 151.02 X 150.46 X 151.18 | 22723 | 8.702 | 531.1 | 23.4 | |

sults obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿಬಿಎಂಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-24

FOR CIVIL Pro.

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Authorized Signatory
Quality Manager


****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| | : | **CP-2022-07-01-04** **Date: 06/07/2022** |
| ıme | : | Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division. |
| | : | Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045 |
| 's Reference | : | BBMP/EE/BTP/WO/02/2021-22 |
| eceipt | : | 01-07-22 |
| ID | : | Culvert Bottom Raft - 2nd Main Road (W0616) |
| ype /Size | : | 150X150X150 mm |
| ade/Age | : | M20 / 7 Days Compressive Strength |
| to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| st | : | 06/07/2022 |

| dentification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|---|---|---|---|---|---|---|---|---|---|
| | | | | (mm) | (Sq.mm) | (kg) | (KN) | ($N/mm^2$) | ($N/mm^2$) |
| vert Bottom Raft - nd Main Road (W0616) | M20 | 29/06/2022 | 06/07/2022 | 151.37 X 150.84 X 151.90 | 22833 | 8.781 | 421.8 | 18.5 | 18.4 |
| vert Bottom Raft - nd Main Road (W0616) | M20 | 29/06/2022 | 06/07/2022 | 151.05 X 149.97 X 149.67 | 22652 | 8.177 | 411.1 | 18.1 | |
| vert Bottom Raft - nd Main Road (W0616) | M20 | 29/06/2022 | 06/07/2022 | 150.21 X 151.55 X 151.61 | 22766 | 8.158 | 423.6 | 18.6 | |

ts obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

**FOR CIVIL Pro.**

**R KARTHIK RECHAN**
Authorized Signatory
**Quality Manager**


****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-07-01-04 **Date: 27/07/2022**

Name : Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06

: Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

ıer's Reference : BBMP/EE/BTP/WO/02/2021-22

Receipt : 01-07-22

ıer ID : Culvert Bottom Raft - 2nd Main Road (W0616)

Type /Size : 150X150X150 mm

grade/Age : M20 / 28 Days Compressive Strength

ıce to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

test : 27/07/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Culvert Bottom Raft - 2nd Main Road (W0616) | M20 | 29/06/2022 | 27/07/2022 | 149.43 X 150.51 X 149.94 | 22491 | 9.019 | 531.2 | 23.6 | 23.2 |
| Culvert Bottom Raft - 2nd Main Road (W0616) | M20 | 29/06/2022 | 27/07/2022 | 151.93 X 149.75 X 149.81 | 22752 | 8.965 | 505.2 | 22.2 | |
| Culvert Bottom Raft - 2nd Main Road (W0616) | M20 | 29/06/2022 | 27/07/2022 | 150.36 X 149.97 X 151.64 | 22549 | 9.048 | 539.0 | 23.9 | |

sults obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ವ್ಯಾಪ್ತಿರಾಯನಪುರ ಉಪ ವಿಭಾಗ

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ವ್ಯಾಪ್ತಿರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ.


****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

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AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
# 4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-07-01-04 **Date: 06/07/2022**

Name : Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.

: Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

ner's Reference : BBMP/EE/BTP/WO/02/2021-22

Receipt : 01-07-22

ner ID : Culvert Bottom Raft - 2nd Main Road (W0616)

Type /Size : 150X150X150 mm

grade/Age : M20 / 7 Days Compressive Strength

nce to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

test : 06/07/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|---|---|---|---|---|---|---|---|---|---|
| | | | | (mm) | (Sq.mm) | (kg) | (KN) | ($N/mm^2$) | ($N/mm^2$) |
| Culvert Bottom Raft - 2nd Main Road (W0616) | M20 | 29/06/2022 | 06/07/2022 | 151.37 X 150.98 X 149.08 | 22854 | 8.120 | 420.6 | 18.4 | 18.6 |
| Culvert Bottom Raft - 2nd Main Road (W0616) | M20 | 29/06/2022 | 06/07/2022 | 150.45 X 149.32 X 150.51 | 22465 | 8.763 | 416.2 | 18.5 | |
| Culvert Bottom Raft - 2nd Main Road (W0616) | M20 | 29/06/2022 | 06/07/2022 | 152.00 X 151.82 X 151.98 | 23077 | 8.176 | 436.8 | 18.9 | |

esults obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

**FOR CIVIL Pro.**

**R KARTHIK RECHAN**
Authorized Signatory
**Quality Manager**

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24


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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

CIVIL PRO
AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
# 4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-07-01-04 **Date: 27/07/2022**

Name : Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06

: Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

r's Reference : BBMP/EE/BTP/WO/02/2021-22

Receipt : 01-07-22

r ID : Culvert Bottom Raft - 2nd Main Road (W0616)

Type /Size : 150X150X150 mm

grade/Age : M20 / 28 Days Compressive Strength

e to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

est : 27/07/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| lvert Bottom Raft - 2nd Main Road (W0616) | M20 | 29/06/2022 | 27/07/2022 | 149.85 X 151.68 X 150.58 | 22729 | 9.028 | 540.2 | 23.8 | 23.3 |
| lvert Bottom Raft - 2nd Main Road (W0616) | M20 | 29/06/2022 | 27/07/2022 | 149.95 X 149.79 X 151.33 | 22460 | 8.112 | 505.5 | 22.5 | |
| lvert Bottom Raft - 2nd Main Road (W0616) | M20 | 29/06/2022 | 27/07/2022 | 150.52 X 149.46 X 150.70 | 22497 | 8.322 | 532.7 | 23.7 | |

ults obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

**FOR CIVIL Pro.**

**R KARTHIK RECHAN**
Authorized Signatory
**Quality Manager**

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26



****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| D | : | CP-2022-07-01-04 **Date: 09/07/2022** |
| ct Name | : | Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division. |
| cy | : | Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045 |
| mer's Reference | : | BBMP/EE/BTP/WO/02/2021-22 |
| of Receipt | : | 04-07-22 |
| mer ID | : | Culvert Side Wall - 2nd Main Road (W0616) |
| le Type /Size | : | 150X150X150 mm |
| le grade/Age | : | M20 / 7 Days Compressive Strength |
| ence to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| of test | : | 09/07/2022 |

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Culvert Side Wall - 2nd Main Road (W0616) | M20 | 02/07/2022 | 09/07/2022 | 150.57 X 151.35 X 151.86 | 22789 | 8.598 | 414.7 | 18.2 | 18.2 |
| Culvert Side Wall - 2nd Main Road (W0616) | M20 | 02/07/2022 | 09/07/2022 | 150.24 X 150.71 X 151.36 | 22642 | 8.237 | 416.2 | 18.4 | |
| Culvert Side Wall - 2nd Main Road (W0616) | M20 | 02/07/2022 | 09/07/2022 | 149.91 X 149.94 X 151.70 | 22478 | 8.819 | 405.4 | 18.0 | |

esults obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು.
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-24

CIVIL Pro BANGALORE

**FOR CIVIL Pro.**

**R KARTHIK RECHAN**
Authorized Signatory
**Quality Manager**


****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-07-01-04 **Date: 30/07/2022**

Name : Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06

: Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

er's Reference : BBMP/EE/BTP/WO/02/2021-22

Receipt : 04-07-22

er ID : Culvert Side Wall - 2nd Main Road (W0616)

Type /Size : 150X150X150 mm

grade/Age : M20 / 28 Days Compressive Strength

ce to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

test : 30/07/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Culvert Side Wall - 2nd Main Road (W0616) | M20 | 02/07/2022 | 30/07/2022 | 149.33 X 150.56 X 151.03 | 22483 | 9.002 | 517.5 | 23.0 | 23.0 |
| Culvert Side Wall - 2nd Main Road (W0616) | M20 | 02/07/2022 | 30/07/2022 | 150.18 X 149.70 X 149.66 | 22482 | 8.597 | 503.3 | 22.4 | |
| Culvert Side Wall - 2nd Main Road (W0616) | M20 | 02/07/2022 | 30/07/2022 | 149.76 X 150.29 X 150.41 | 22508 | 8.425 | 530.3 | 23.6 | |

sults obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

**FOR CIVIL Pro.**

**R KARTHIK RECHAN**
Authorized Signatory
**Quality Manager**

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26



****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

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# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| ID | : | CP-2022-07-01-04 |
| ect Name | : | Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division. |
| ncy | : | Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045 |
| omer's Reference | : | BBMP/EE/BTP/WO/02/2021-22 |
| of Receipt | : | 04-07-22 |
| omer ID | : | Culvert Side Wall - 2nd Main Road (W0616) |
| ple Type /Size | : | 150X150X150 mm |
| ple grade/Age | : | M20 / 7 Days Compressive Strength |
| rence to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| of test | : | 09/07/2022 |

Date: 09/07/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Culvert Side Wall - 2nd Main Road (W0616) | M20 | 02/07/2022 | 09/07/2022 | 150.97 X 149.29 X 149.16 | 22539 | 8.796 | 418.8 | 18.6 | 18.4 |
| Culvert Side Wall - 2nd Main Road (W0616) | M20 | 02/07/2022 | 09/07/2022 | 149.87 X 151.92 X 150.89 | 22769 | 8.336 | 420.5 | 18.5 | |
| Culvert Side Wall - 2nd Main Road (W0616) | M20 | 02/07/2022 | 09/07/2022 | 151.77 X 151.54 X 151.38 | 22999 | 8.829 | 414.1 | 18.0 | |

results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬೆಂಗಳೂರು-26

FOR CIVIL Pro.

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| | : | **CP-2022-07-01-04** **Date: 30/07/2022** |
| ame | : | Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 |
| | : | Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045 |
| 's Reference | : | BBMP/EE/BTP/WO/02/2021-22 |
| eceipt | : | 04-07-22 |
| ID | : | Culvert Side Wall - 2nd Main Road (W0616) |
| ype /Size | : | 150X150X150 mm |
| rade/Age | : | M20 / 28 Days Compressive Strength |
| to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| st | : | 30/07/2022 |

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| lvert Side Wall - nd Main Road (W0616) | M20 | 02/07/2022 | 30/07/2022 | 150.24 X 150.69 X 150.95 | 22640 | 8.288 | 520.9 | 23.0 | 23.1 |
| lvert Side Wall - nd Main Road (W0616) | M20 | 02/07/2022 | 30/07/2022 | 151.47 X 151.12 X 151.78 | 22891 | 8.582 | 520.1 | 22.7 | |
| lvert Side Wall - nd Main Road (W0616) | M20 | 02/07/2022 | 30/07/2022 | 151.92 X 150.53 X 149.78 | 22868 | 8.279 | 536.5 | 23.5 | |

ts obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ

**FOR CIVIL Pro.**

**R KARTHIK RECHAN**
Authorized Signatory
**Quality Manager**


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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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# 4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

Date: 02/08/2022

| | | |
|---|---|---|
| ID | : | CP-2022-07-01-04 |
| ject Name | : | Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division. |
| ncy | : | Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045 |
| tomer's Reference | : | BBMP/EE/BTP/WO/02/2021-22 |
| e of Receipt | : | 28-07-22 |
| tomer ID | : | Cement Concrete Pavement-Krishna Nivas House (W1309) |
| ple Type /Size | : | 150X150X150 mm |
| ple grade/Age | : | M30 / 7 Days Compressive Strength |
| erence to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| e of test | : | 02/08/2022 |

| | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| | Cement Concrete Pavement-Krishna Nivas House (W1309) | M30 | 26/07/2022 | 02/08/2022 | 149.95 X 151.81 X 150.98 | 22763 | 8.157 | 584.1 | 25.7 | 25.5 |
| | Cement Concrete Pavement-Krishna Nivas House (W1309) | M30 | 26/07/2022 | 02/08/2022 | 151.78 X 149.19 X 150.45 | 22644 | 8.935 | 600.4 | 26.5 | |
| | Cement Concrete Pavement-Krishna Nivas House (W1309) | M30 | 26/07/2022 | 02/08/2022 | 151.48 X 150.80 X 149.03 | 22843 | 8.690 | 552.7 | 24.2 | |

e results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager


****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| | : CP-2022-07-01-04 | Date: 23/08/2022 |
| ID<br>ect Name | : Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division. | |
| ncy | : Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045 | |
| tomer's Reference | : BBMP/EE/BTP/WO/02/2021-22 | |
| of Receipt | : 28-07-22 | |
| tomer ID | : Cement Concrete Pavement-Krishna Nivas House (W1309) | |
| ple Type /Size | : 150X150X150 mm | |
| ple grade/Age | : M30 / 28 Days Compressive Strength | |
| erence to BIS codes | : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 | |
| of test | : 23/08/2022 | |

| | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| | Cement Concrete Pavement-Krishna Nivas House (W1309) | M30 | 26/07/2022 | 23/08/2022 | 150.85 X 149.91 X 151.38 | 22613 | 8.383 | 756.5 | 33.5 | 33.3 |
| | Cement Concrete Pavement-Krishna Nivas House (W1309) | M30 | 26/07/2022 | 23/08/2022 | 150.70 X 151.93 X 150.06 | 22896 | 8.796 | 755.0 | 33.0 | |
| | Cement Concrete Pavement-Krishna Nivas House (W1309) | M30 | 26/07/2022 | 23/08/2022 | 151.79 X 150.73 X 151.70 | 22880 | 8.132 | 762.8 | 33.3 | |

e results obtained are satisfactory as per standard requirements.

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CIVIL Pro Sig..... Date..... BANGALORE

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Authorized Signatory
Quality Manager

Page 1 of 1

End of Report****

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Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-07-01-04

Date: 02/08/2022

t Name : Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.

: Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

ner's Reference : BBMP/EE/BTP/WO/02/2021-22

f Receipt : 28-07-22

ner ID : Cement Concrete Pavement-Krishna Nivas House (W1309)

e Type /Size : 150X150X150 mm

e grade/Age : M30 / 7 Days Compressive Strength

nce to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

f test : 02/08/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Cement Concrete Pavement-Krishna Nivas House (W1309) | M30 | 26/07/2022 | 02/08/2022 | 150.69 X 151.87 X 150.56 | 22886 | 8.162 | 590.2 | 25.8 | |
| Cement Concrete Pavement-Krishna Nivas House (W1309) | M30 | 26/07/2022 | 02/08/2022 | 151.40 X 149.42 X 150.97 | 22622 | 8.536 | 604.3 | 26.7 | 25.8 |
| Cement Concrete Pavement-Krishna Nivas House (W1309) | M30 | 26/07/2022 | 02/08/2022 | 151.20 X 149.06 X 150.98 | 22538 | 8.838 | 560.3 | 24.9 | |

esults obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-26



****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| | : | CP-2022-07-01-04 **Date: 23/08/2022** |
| t Name | : | Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division. |
| y | : | Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045 |
| ner's Reference | : | BBMP/EE/BTP/WO/02/2021-22 |
| f Receipt | : | 28-07-22 |
| ner ID | : | Cement Concrete Pavement-Krishna Nivas House (W1309) |
| e Type /Size | : | 150X150X150 mm |
| e grade/Age | : | M30 / 28 Days Compressive Strength |
| nce to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| f test | : | 23/08/2022 |

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Cement Concrete Pavement-Krishna Nivas House (W1309) | M30 | 26/07/2022 | 23/08/2022 | 149.85 X 151.79 X 150.37 | 22745 | 8.112 | 768.4 | 33.8 | 33.3 |
| Cement Concrete Pavement-Krishna Nivas House (W1309) | M30 | 26/07/2022 | 23/08/2022 | 150.38 X 150.67 X 150.82 | 22658 | 8.508 | 744.8 | 32.9 | |
| Cement Concrete Pavement-Krishna Nivas House (W1309) | M30 | 26/07/2022 | 23/08/2022 | 149.01 X 149.97 X 150.10 | 22347 | 8.319 | 742.0 | 33.2 | |

results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ.

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CIVIL Pro Sig..... Date..... BANGALORE

J.S KARTHIK RECHAN
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Quality Manager



****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| | : | CP-2022-07-01-04 **Date: 02/08/2022** |
| D<br>et Name | : | Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division. |
| cy | : | Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045 |
| mer's Reference | : | BBMP/EE/BTP/WO/02/2021-22 |
| of Receipt | : | 28-07-22 |
| mer ID | : | Cement Concrete Pavement-Krishna Nivas House (W1309) |
| le Type /Size | : | 150X150X150 mm |
| le grade/Age | : | M30 / 7 Days Compressive Strength |
| ence to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| of test | : | 02/08/2022 |

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Cement Concrete Pavement-Krishna Nivas House (W1309) | M30 | 26/07/2022 | 02/08/2022 | 151.38 X 151.80 X 151.89 | 22980 | 8.108 | 583.3 | 25.4 | 25.7 |
| Cement Concrete Pavement-Krishna Nivas House (W1309) | M30 | 26/07/2022 | 02/08/2022 | 150.01 X 149.90 X 151.61 | 22487 | 8.267 | 605.3 | 26.9 | |
| Cement Concrete Pavement-Krishna Nivas House (W1309) | M30 | 26/07/2022 | 02/08/2022 | 149.07 X 149.71 X 149.16 | 22317 | 8.176 | 555.6 | 24.9 | |

results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-24

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-07-01-04 Date: 23/08/2022

Name : Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.

: Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

er's Reference : BBMP/EE/BTP/WO/02/2021-22

Receipt : 28-07-22

er ID : Cement Concrete Pavement-Krishna Nivas House (W1309)

Type /Size : 150X150X150 mm

grade/Age : M30 / 28 Days Compressive Strength

ce to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

test : 23/08/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Cement Concrete Pavement-Krishna Nivas House (W1309) | M30 | 26/07/2022 | 23/08/2022 | 150.28 X 151.45 X 151.01 | 22760 | 8.964 | 761.6 | 33.5 | 33.0 |
| Cement Concrete Pavement-Krishna Nivas House (W1309) | M30 | 26/07/2022 | 23/08/2022 | 149.30 X 149.24 X 149.98 | 22282 | 8.399 | 723.8 | 32.5 | |
| Cement Concrete Pavement-Krishna Nivas House (W1309) | M30 | 26/07/2022 | 23/08/2022 | 151.38 X 149.69 X 150.65 | 22659 | 8.906 | 748.0 | 33.0 | |

sults obtained are satisfactory as per standard requirements.

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CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
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Quality Manager


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Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-07-01-04 **Date: 02/08/2022**

Name : Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.

: Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

r's Reference : BBMP/EE/BTP/WO/02/2021-22

Receipt : 28-07-22

r ID : Cement Concrete Pavement-Krishna Nivas House (W1309)

Type /Size : 150X150X150 mm

grade/Age : M30 / 7 Days Compressive Strength

ce to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

test : 02/08/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Cement Concrete Pavement-Krishna Nivas House (W1309) | M30 | 26/07/2022 | 02/08/2022 | 151.25 X 149.27 X 151.23 | 22577 | 8.447 | 569.6 | 25.2 | 25.6 |
| Cement Concrete Pavement-Krishna Nivas House (W1309) | M30 | 26/07/2022 | 02/08/2022 | 149.17 X 149.26 X 150.46 | 22264 | 9.021 | 598.5 | 26.9 | |
| Cement Concrete Pavement-Krishna Nivas House (W1309) | M30 | 26/07/2022 | 02/08/2022 | 149.19 X 151.29 X 149.46 | 22572 | 8.818 | 556.1 | 24.6 | |

ults obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26


****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-07-01-04 **Date: 23/08/2022**

Name : Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.

: Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

er's Reference : BBMP/EE/BTP/WO/02/2021-22

Receipt : 28-07-22

er ID : Cement Concrete Pavement-Krishna Nivas House (W1309)

Type /Size : 150X150X150 mm

grade/Age : M30 / 28 Days Compressive Strength

ce to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

test : 23/08/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Cement Concrete Pavement-Krishna Nivas House (W1309) | M30 | 26/07/2022 | 23/08/2022 | 151.35 X 150.15 X 150.09 | 22725 | 8.772 | 770.2 | 33.9 | 33.4 |
| Cement Concrete Pavement-Krishna Nivas House (W1309) | M30 | 26/07/2022 | 23/08/2022 | 149.25 X 151.99 X 149.92 | 22685 | 8.739 | 741.6 | 32.7 | |
| Cement Concrete Pavement-Krishna Nivas House (W1309) | M30 | 26/07/2022 | 23/08/2022 | 150.88 X 151.65 X 151.65 | 22881 | 8.431 | 768.1 | 33.6 | |

results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
**Quality Manager**

ಸಹಾಯಕ ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26



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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-07-01-04 **Date: 03/08/2022**

ne : Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.

: Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

Reference : BBMP/EE/BTP/WO/02/2021-22

eipt : 29-07-22

D : Cement Concrete Pavement-Joseph House Road(W0884)

e /Size : 150X150X150 mm

de/Age : M30 / 7 Days Compressive Strength

o BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

: 03/08/2022

| entification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| nent Concrete ement-Joseph e Road(W0884) | M30 | 27/07/2022 | 03/08/2022 | 150.23 X 150.99 X 150.59 | 22683 | 8.838 | 580.7 | 25.6 | 25.6 |
| nent Concrete ement-Joseph e Road(W0884) | M30 | 27/07/2022 | 03/08/2022 | 150.22 X 150.80 X 150.71 | 22653 | 8.484 | 605.8 | 26.7 | |
| nent Concrete ement-Joseph e Road(W0884) | M30 | 27/07/2022 | 03/08/2022 | 149.01 X 149.14 X 149.87 | 22224 | 8.810 | 542.7 | 24.4 | |

obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

ಸಹಾಯಕ ಕಾರ್ಯ ನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆಯ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-28


****End of Report****

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Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

Date: 24/08/2022

| | | |
|---|---|---|
| Lab ID | : | CP-2022-07-01-04 |
| Enquiry Name | : | Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division. |
| Agency | : | Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045 |
| Customer's Reference | : | BBMP/EE/BTP/WO/02/2021-22 |
| Date of Receipt | : | 29-07-22 |
| Customer ID | : | Cement Concrete Pavement-Joseph House Road(W0884) |
| Sample Type /Size | : | 150X150X150 mm |
| Sample grade/Age | : | M30 / 28 Days Compressive Strength |
| Reference to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| Date of test | : | 24/08/2022 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Cement Concrete Pavement-Joseph House Road(W0884) | M30 | 27/07/2022 | 24/08/2022 | 150.39 X 149.51 X 151.67 | 22485 | 8.168 | 759.4 | 33.8 | 33.4 |
| 2 | Cement Concrete Pavement-Joseph House Road(W0884) | M30 | 27/07/2022 | 24/08/2022 | 149.51 X 149.44 X 151.13 | 22344 | 9.076 | 727.6 | 32.6 | |
| 3 | Cement Concrete Pavement-Joseph House Road(W0884) | M30 | 27/07/2022 | 24/08/2022 | 150.18 X 149.53 X 150.77 | 22457 | 8.281 | 758.9 | 33.8 | |

The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

FOR CIVIL Pro.

CIVIL Pro ★ Sig..... Date..... ★ BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager


End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-07-01-04

Date: 03/08/2022

D : Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.

ct Name : Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

cy

mer's Reference : BBMP/EE/BTP/WO/02/2021-22

of Receipt : 29-07-22

mer ID : Cement Concrete Pavement-Joseph House Road(W0884)

le Type /Size : 150X150X150 mm

le grade/Age : M30 / 7 Days Compressive Strength

rence to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

of test : 03/08/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Cement Concrete Pavement-Joseph House Road(W0884) | M30 | 27/07/2022 | 03/08/2022 | 151.28 X 149.72 X 150.30 | 22650 | 8.911 | 586.6 | 25.9 | 25.8 |
| Cement Concrete Pavement-Joseph House Road(W0884) | M30 | 27/07/2022 | 03/08/2022 | 150.96 X 150.33 X 149.32 | 22694 | 8.476 | 603.2 | 26.6 | |
| Cement Concrete Pavement-Joseph House Road(W0884) | M30 | 27/07/2022 | 03/08/2022 | 151.06 X 151.35 X 151.46 | 22863 | 9.070 | 568.8 | 24.9 | |

he results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಧಿಕಾರಿಯವರು
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FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬೆಂಗಳೂರು-24



****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| | : | CP-2022-07-01-04 |
| | : | Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division. |
| | : | Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045 |
| | : | BBMP/EE/BTP/WO/02/2021-22 |
| | : | 29-07-22 |
| | : | Cement Concrete Pavement-Joseph House Road(W0884) |
| | : | 150X150X150 mm |
| | : | M30 / 28 Days Compressive Strength |
| | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| | : | 24/08/2022 |

Date: 24/08/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Cement Concrete Pavement-Joseph House Road(W0884) | M30 | 27/07/2022 | 24/08/2022 | 150.00 X 151.81 X 150.31 | 22772 | 8.861 | 755.0 | 33.2 | 33.1 |
| Cement Concrete Pavement-Joseph House Road(W0884) | M30 | 27/07/2022 | 24/08/2022 | 151.53 X 151.62 X 150.12 | 22976 | 8.527 | 750.7 | 32.7 | |
| Cement Concrete Pavement-Joseph House Road(W0884) | M30 | 27/07/2022 | 24/08/2022 | 151.03 X 149.54 X 149.51 | 22585 | 8.875 | 757.6 | 33.5 | |

The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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FOR CIVIL Pro.

CIVIL Pro ★ Sig..... Date..... ★ BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬೆಂಗಳೂರು-24



****End of Report

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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# 4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| ID | : | CP-2022-07-01-04 **Date: 03/08/2022** |
| ect Name | : | Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division. |
| ncy | : | Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045 |
| omer's Reference | : | BBMP/EE/BTP/WO/02/2021-22 |
| of Receipt | : | 29-07-22 |
| omer ID | : | Cement Concrete Pavement-Joseph House Road(W0884) |
| ple Type /Size | : | 150X150X150 mm |
| ple grade/Age | : | M30 / 7 Days Compressive Strength |
| rence to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| of test | : | 03/08/2022 |

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Cement Concrete Pavement-Joseph House Road(W0884) | M30 | 27/07/2022 | 03/08/2022 | 149.94 X 150.05 X 150.56 | 22499 | 8.707 | 577.9 | 25.7 | 25.5 |
| Cement Concrete Pavement-Joseph House Road(W0884) | M30 | 27/07/2022 | 03/08/2022 | 149.95 X 151.46 X 151.40 | 22711 | 8.503 | 595.4 | 26.2 | |
| Cement Concrete Pavement-Joseph House Road(W0884) | M30 | 27/07/2022 | 03/08/2022 | 151.84 X 150.11 X 150.04 | 22792 | 8.736 | 560.6 | 24.6 | |

e results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

FOR CIVIL Pro.
R★ARTHIK-RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro ★ Sig..... Date..... BANGALORE

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ಬೆಂಗಳೂರು-26


**End of Report****

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Certificate No.: TC-5548

# TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

D : CP-2022-07-01-04

ct Name : Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.

Date: 24/08/2022

cy : Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

mer's Reference : BBMP/EE/BTP/WO/02/2021-22

of Receipt : 29-07-22

mer ID : Cement Concrete Pavement-Joseph House Road(W0884)

le Type /Size : 150X150X150 mm

le grade/Age : M30 / 28 Days Compressive Strength

ence to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

of test : 24/08/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Cement Concrete Pavement-Joseph House Road(W0884) | M30 | 27/07/2022 | 24/08/2022 | 151.61 X 149.05 X 149.82 | 22598 | 8.511 | 757.4 | 33.5 | 33.1 |
| Cement Concrete Pavement-Joseph House Road(W0884) | M30 | 27/07/2022 | 24/08/2022 | 150.20 X 149.84 X 150.37 | 22506 | 8.940 | 725.8 | 32.2 | |
| Cement Concrete Pavement-Joseph House Road(W0884) | M30 | 27/07/2022 | 24/08/2022 | 151.28 X 149.19 X 150.17 | 22569 | 8.926 | 759.7 | 33.7 | |

e results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26


***End of Report****

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Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-07-01-04

Date: 03/08/2022

Name : Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.

: Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

r's Reference : BBMP/EE/BTP/WO/02/2021-22

Receipt : 29-07-22

r ID : Cement Concrete Pavement-Joseph House Road(W0884)

Type /Size : 150X150X150 mm

grade/Age : M30 / 7 Days Compressive Strength

ce to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

test : 03/08/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Cement Concrete Pavement-Joseph ouse Road(W0884) | M30 | 27/07/2022 | 03/08/2022 | 150.84 X 151.61 X 150.05 | 22868 | 8.886 | 589.5 | 25.8 | 25.8 |
| Cement Concrete Pavement-Joseph ouse Road(W0884) | M30 | 27/07/2022 | 03/08/2022 | 150.01 X 149.19 X 149.79 | 22380 | 8.857 | 595.8 | 26.6 | |
| Cement Concrete Pavement-Joseph ouse Road(W0884) | M30 | 27/07/2022 | 03/08/2022 | 151.86 X 149.65 X 150.55 | 22726 | 8.437 | 564.9 | 24.9 | |

sults obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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Quality Manager



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Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-07-01-04 **Date: 24/08/2022**

Name : Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.

: Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

ner's Reference : BBMP/EE/BTP/WO/02/2021-22

f Receipt : 29-07-22

mer ID : Cement Concrete Pavement-Joseph House Road(W0884)

e Type /Size : 150X150X150 mm

e grade/Age : M30 / 28 Days Compressive Strength

nce to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

f test : 24/08/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Cement Concrete Pavement-Joseph House Road(W0884) | M30 | 27/07/2022 | 24/08/2022 | 150.80 X 149.77 X 151.21 | 22585 | 8.206 | 746.3 | 33.0 | 33.1 |
| Cement Concrete Pavement-Joseph House Road(W0884) | M30 | 27/07/2022 | 24/08/2022 | 149.99 X 150.15 X 151.91 | 22521 | 8.780 | 732.5 | 32.5 | |
| Cement Concrete Pavement-Joseph House Road(W0884) | M30 | 27/07/2022 | 24/08/2022 | 149.36 X 149.19 X 149.51 | 22283 | 8.919 | 750.6 | 33.7 | |

: results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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CIVIL Pro Sig.....R.K.KARTHIK RECHAN
BANGALORE Date..... Authorized Signatory
Quality Manager

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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**End of Report**

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Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-07-01-04 **Date: 04/08/2022**

Name : Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.

: Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

ner's Reference : BBMP/EE/BTP/WO/02/2021-22

Receipt : 30-07-22

ner ID : Cement Concrete Pavement-Moto Works Oppo.(W1299)

Type /Size : 150X150X150 mm

grade/Age : M30 / 7 Days Compressive Strength

nce to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

test : 04/08/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Cement Concrete Pavement-Moto Works Oppo.(W1299) | M30 | 28/07/2022 | 04/08/2022 | 150.65 X 149.61 X 151.28 | 22538 | 8.473 | 563.7 | 25.0 | 25.5 |
| Cement Concrete Pavement-Moto Works Oppo.(W1299) | M30 | 28/07/2022 | 04/08/2022 | 151.47 X 149.87 X 149.91 | 22701 | 8.135 | 609.9 | 26.9 | |
| Cement Concrete Pavement-Moto Works Oppo.(W1299) | M30 | 28/07/2022 | 04/08/2022 | 151.09 X 151.53 X 149.03 | 22894 | 8.605 | 566.3 | 24.7 | |

esults obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

Date: 25/08/2022

| | | |
|---|---|---|
| ) ID | : | CP-2022-07-01-04 |
| ject Name | : | Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division. |
| ency | : | Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045 |
| stomer's Reference | : | BBMP/EE/BTP/WO/02/2021-22 |
| te of Receipt | : | 30-07-22 |
| stomer ID | : | Cement Concrete Pavement-Moto Works Oppo.(W1299) |
| mple Type /Size | : | 150X150X150 mm |
| mple grade/Age | : | M30 / 28 Days Compressive Strength |
| ference to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| te of test | : | 25/08/2022 |

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Cement Concrete Pavement-Moto Works Oppo (W1299) | M30 | 28/07/2022 | 25/08/2022 | 150.10 X 150.07 X 150.06 | 22525 | 8.115 | 746.1 | 33.1 | 33.0 |
| Cement Concrete Pavement-Moto Works Oppo.(W1299) | M30 | 28/07/2022 | 25/08/2022 | 151.51 X 150.50 X 149.07 | 22802 | 8.587 | 731.0 | 32.1 | |
| Cement Concrete Pavement-Moto Works Oppo.(W1299) | M30 | 28/07/2022 | 25/08/2022 | 149.49 X 151.17 X 150.18 | 22597 | 8.722 | 762.9 | 33.8 | |

The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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ಸಹಾಯಕ ಕಾರ್ಯ ಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

CIVIL Pro Sig..... Date..... BANGALORE

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Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-07-01-04

Date: 04/08/2022

ame : Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.

: Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

r's Reference : BBMP/EE/BTP/WO/02/2021-22

Receipt : 30-07-22

r ID : Cement Concrete Pavement-Moto Works Oppo.(W1299)

Type /Size : 150X150X150 mm

rade/Age : M30 / 7 Days Compressive Strength

e to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

est : 04/08/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Cement Concrete Pavement-Moto Works Oppo.(W1299) | M30 | 28/07/2022 | 04/08/2022 | 151.75 X 149.27 X 149.22 | 22653 | 9.015 | 575.4 | 25.4 | 25.2 |
| Cement Concrete Pavement-Moto Works Oppo.(W1299) | M30 | 28/07/2022 | 04/08/2022 | 149.48 X 150.04 X 151.24 | 22428 | 8.640 | 583.5 | 26.0 | |
| Cement Concrete Pavement-Moto Works Oppo.(W1299) | M30 | 28/07/2022 | 04/08/2022 | 149.41 X 149.52 X 151.12 | 22339 | 8.617 | 542.5 | 24.3 | |

lts obtained are satisfactory as per standard requirements.

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ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು-28

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R.KARTHIK RECHAN
Authorized Signatory
Quality Manager


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Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-07-01-04

Date: 25/08/2022

Name : Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.

: Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

er's Reference : BBMP/EE/BTP/WO/02/2021-22

Receipt : 30-07-22

er ID : Cement Concrete Pavement-Moto Works Oppo.(W1299)

Type /Size : 150X150X150 mm

grade/Age : M30 / 28 Days Compressive Strength

ce to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

test : 25/08/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|---|---|---|---|---|---|---|---|---|---|
| | | | | (mm) | (Sq.mm) | (kg) | (KN) | ($N/mm^2$) | ($N/mm^2$) |
| Cement Concrete Pavement-Moto Works Oppo.(W1299) | M30 | 28/07/2022 | 25/08/2022 | 149.73 X 149.68 X 150.29 | 22411 | 8.806 | 753.2 | 33.6 | 33.0 |
| Cement Concrete Pavement-Moto Works Oppo.(W1299) | M30 | 28/07/2022 | 25/08/2022 | 150.73 X 151.37 X 150.17 | 22817 | 8.318 | 733.9 | 32.2 | |
| Cement Concrete Pavement-Moto Works Oppo.(W1299) | M30 | 28/07/2022 | 25/08/2022 | 150.07 X 149.41 X 149.51 | 22421 | 9.048 | 744.7 | 33.2 | |

sults obtained are satisfactory as per standard requirements

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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Certificate No.: TC-5548

# TEST RESULTS OF GRADATION FOR GSB
## (IS 2386:(Part 1) 1963 (RA2011)

Lab ID : CP-RW-2019-02-15-31 Date: 20-07-22

Project Name : Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.

Agency : Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

Customer Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 18-07-22

Type of Mix : GSB (Granular Sub Base)

Date of test : 18-07-22

Oven Dry Weight : 10000 Grams

| IS Sieve Size(mm) | Weight Retained (gm) | Cumulative Weight Retained (gm) | % Cumulative Weight Retained | % Passing | Spec. Limit Vide Table 400.1 MORTH Specification |
|---|---|---|---|---|---|
| 75 | 0 | 0 | 0 | 100 | 100 |
| 53 | 983 | 983 | 9.83 | 90.17 | 80-100 |
| 26.5 | 1681 | 2664 | 26.64 | 73.36 | 55-90 |
| 9.5 | 1287 | 3951 | 39.51 | 60.49 | 35-65 |
| 4.75 | 1502 | 5453 | 54.53 | 45.47 | 25-50 |
| 2.36 | 2896 | 8349 | 83.49 | 16.51 | 10-20 |
| 0.85 | 1285 | 9634 | 96.34 | 3.66 | 2-10 |
| 0.425 | 245 | 9879 | 98.79 | 1.21 | 0-5 |

**TESTS ON FILLER SCREEN MATERIALS**

| Sl no | Particulars | Test results | Spec.Limit Vide Table |
|---|---|---|---|
| 1 | Liquid Limit, % | 22.00% | Maximum 25 |
| 2 | Plasticity index, % | Non plastic | Maximum 6 |

* The results obtained are satisfactory as per standard requirements.

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ಕಡತಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರವರು
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CIVIL Pro Sig..... Date..... BANGALORE

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Quality Manager


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Certificate No.: TC-5548

# TEST RESULTS OF GRADATION FOR GSB
## (IS 2386:(Part 1) 1963 (RA2011)

Lab ID : CP-RW-2019-02-15-31 Date: 20-07-22

Project Name : Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.

Agency : Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

Customer Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 18-07-22

Type of Mix : GSB (Granular Sub Base)

Date of test : 18-07-22

Oven Dry Weight : 10500 Grams

| IS Sieve Size(mm) | Weight Retained (gm) | Cumulative Weight Retained (gm) | % Cumulative Weight Retained | % Passing | Spec. Limit Vide Table 400.1 MORTH Specification |
|---|---|---|---|---|---|
| 75 | 0 | 0 | 0 | 100 | 100 |
| 53 | 388 | 388 | 3.70 | 96.30 | 80-100 |
| 26.5 | 1755 | 2143 | 20.41 | 79.59 | 55-90 |
| 9.5 | 2892 | 5035 | 47.95 | 52.05 | 35-65 |
| 4.75 | 1515 | 6550 | 62.38 | 37.62 | 25-50 |
| 2.36 | 1863 | 8413 | 80.12 | 19.88 | 10-20 |
| 0.85 | 1250 | 9663 | 92.03 | 7.97 | 2-10 |
| 0.425 | 652 | 10315 | 98.24 | 1.76 | 0-5 |

TESTS ON FILLER SCREEN MATERIALS

| Sl no | Particulars | Test results | Spec.Limit Vide Table |
|---|---|---|---|
| 1 | Liquid Limit, % | 23.40% | Maximum 25 |
| 2 | Plasticity index, % | Non plastic | Maximum 6 |

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

# TEST RESULTS OF GRADATION FOR GSB
## (IS 2386:(Part 1) 1963 (RA2011)

Lab ID : CP-RW-2019-02-15-31

Date: 22-07-22

Project Name : Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.

Agency : Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

Customer Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 20-07-22

Type of Mix : GSB (Granular Sub Base)

Date of test : 20-07-22

Oven Dry Weight : 12560 Grams

| IS Sieve Size(mm) | Weight Retained (gm) | Cumulative Weight Retained (gm) | % Cumulative Weight Retained | % Passing | Spec. Limit Vide Table 400.1 MORTH Specification |
|---|---|---|---|---|---|
| 75 | 0 | 0 | 0 | 100 | 100 |
| 53 | 1505 | 1505 | 11.98 | 88.02 | 80-100 |
| 26.5 | 3040 | 4545 | 36.19 | 63.81 | 55-90 |
| 9.5 | 1985 | 6530 | 51.99 | 48.01 | 35-65 |
| 4.75 | 1405 | 7935 | 63.18 | 36.82 | 25-50 |
| 2.36 | 2152 | 10087 | 80.31 | 19.69 | 10-20 |
| 0.85 | 1305 | 11392 | 90.70 | 9.30 | 2-10 |
| 0.425 | 756 | 12148 | 96.72 | 3.28 | 0-5 |

## TESTS ON FILLER SCREEN MATERIALS

| Sl no | Particulars | Test results | Spec.Limit Vide Table |
|---|---|---|---|
| 1 | Liquid Limit, % | 23.85% | Maximum 25 |
| 2 | Plasticity index, % | Non plastic | Maximum 6 |

* The results obtained are satisfactory as per standard requirements.

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-24

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Certificate No.: TC-5548

# TEST RESULTS OF GRADATION FOR GSB
## (IS 2386:(Part 1) 1963 (RA2011)

Lab ID : CP-RW-2019-02-15-31 Date: 22-07-22

Project Name : Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.

Agency : Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

Customer Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 20-07-22

Type of Mix : GSB (Granular Sub Base)

Date of test : 20-07-22

Oven Dry Weight : 12005 Grams

| IS Sieve Size(mm) | Weight Retained (gm) | Cumulative Weight Retained (gm) | % Cumulative Weight Retained | % Passing | Spec. Limit Vide Table 400.1 MORTH Specification |
|---|---|---|---|---|---|
| 75 | 0 | 0 | 0 | 100 | 100 |
| 53 | 1765 | 1765 | 14.70 | 85.30 | 80-100 |
| 26.5 | 1290 | 3055 | 25.45 | 74.55 | 55-90 |
| 9.5 | 1505 | 4560 | 37.98 | 62.02 | 35-65 |
| 4.75 | 1870 | 6430 | 53.56 | 46.44 | 25-50 |
| 2.36 | 3256 | 9686 | 80.68 | 19.32 | 10-20 |
| 0.85 | 1505 | 11191 | 93.22 | 6.78 | 2-10 |
| 0.425 | 642 | 11833 | 98.57 | 1.43 | 0-5 |

TESTS ON FILLER SCREEN MATERIALS

| Sl no | Particulars | Test results | Spec.Limit Vide Table |
|---|---|---|---|
| 1 | Liquid Limit, % | 21.44% | Maximum 25 |
| 2 | Plasticity index, % | Non plastic | Maximum 6 |

* The results obtained are satisfactory as per standard requirements.

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# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

# TEST RESULTS OF GRADATION FOR WMM

Lab ID : CP-RW-2022-07-01-04

Project Name : Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.

Date: 27-07-22

Agency : Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

Customer Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 25-07-22

Type of Mix : WMM ( Wet Mix Macadam)

Date of test : 25-07-22

Oven Dry Weight : 10500 Grams

| IS Sieve Size(mm) | Weight Retained (gm) | Cumulative Weight Retained (gm) | % Cumulative Weight Retained | % Passing | Spec.I.Vide Table 400.13 MORTH Specification |
|---|---|---|---|---|---|
| 53 | 0 | 0 | 0.0 | 100.0 | 100 |
| 45 | 298 | 298 | 2.8 | 97.2 | 95-100 |
| 22.4 | 2078 | 2376 | 22.6 | 77.4 | 60-80 |
| 11.2 | 2314 | 4690 | 44.7 | 55.3 | 40-60 |
| 4.75 | 2098 | 6788 | 64.6 | 35.4 | 25-40 |
| 2.36 | 1987 | 8775 | 83.6 | 16.4 | 15-30 |
| 0.6 | 547 | 9322 | 88.8 | 11.2 | 8-22 |
| 0.075 | 678 | 10000 | 95.2 | 4.8 | 0-5 |

The results obtained are satisfactory as per standard requirements.

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# TEST RESULTS OF GRADATION FOR WMM

| | | |
|---|---|---|
| b ID | : | CP-RW-2022-07-01-04 **Date: 27-07-22** |
| oject Name | : | Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division. |
| ency | : | Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045 |
| stomer Reference | : | BBMP/EE/BTP/WO/02/2021-22 |
| te of Receipt | : | 25-07-22 |
| pe of Mix | : | WMM ( Wet Mix Macadam) |
| te of test | : | 25-07-22 |
| en Dry Weight | : | 11000 Grams |

| IS Sieve Size(mm) | Weight Retained (gm) | Cumulative Weight Retained (gm) | % Cumulative Weight Retained | % Passing | Spec.I.Vide Table 400.13 MORTH Specification |
|---|---|---|---|---|---|
| 53 | 0 | 0 | 0.0 | 100.0 | 100 |
| 45 | 178 | 178 | 1.6 | 98.4 | 95-100 |
| 22.4 | 2175 | 2353 | 21.4 | 78.6 | 60-80 |
| 11.2 | 2381 | 4734 | 43.0 | 57.0 | 40-60 |
| 4.75 | 1973 | 6707 | 61.0 | 39.0 | 25-40 |
| 2.36 | 2016 | 8723 | 79.3 | 20.7 | 15-30 |
| 0.6 | 643 | 9366 | 85.1 | 14.9 | 8-22 |
| 0.075 | 1472 | 10838 | 98.5 | 1.5 | 0-5 |

The results obtained are satisfactory as per standard requirements.

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**FOR CIVIL Pro.**

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# TEST RESULTS OF GRADATION FOR WMM

| | | |
|---|---|---|
| Lab ID | : | CP-RW-2022-07-01-04 **Date: 27-07-22** |
| Project Name | : | Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division. |
| Agency | : | Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045 |
| Customer Reference | : | BBMP/EE/BTP/WO/02/2021-22 |
| Date of Receipt | : | 25-07-22 |
| Type of Mix | : | WMM ( Wet Mix Macadam) |
| Date of test | : | 25-07-22 |
| Oven Dry Weight | : | 10000 Grams |

| IS Sieve Size(mm) | Weight Retained (gm) | Cumulative Weight Retained (gm) | % Cumulative Weight Retained | % Passing | Spec.I.Vide Table 400.13 MORTH Specification |
|---|---|---|---|---|---|
| 53 | 0 | 0 | 0.0 | 100.0 | 100 |
| 45 | 201 | 201 | 2.0 | 98.0 | 95-100 |
| 22.4 | 2614 | 2815 | 28.2 | 71.9 | 60-80 |
| 11.2 | 2016 | 4831 | 48.3 | 51.7 | 40-60 |
| 4.75 | 2161 | 6992 | 69.9 | 30.1 | 25-40 |
| 2.36 | 668 | 7660 | 76.6 | 23.4 | 15-30 |
| 0.6 | 765 | 8425 | 84.3 | 15.8 | 8-22 |
| 0.075 | 1192 | 9617 | 96.2 | 3.8 | 0-5 |

*The results obtained are satisfactory as per standard requirements.

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# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

# TEST RESULTS OF GRADATION FOR WMM

ab ID : CP-RW-2022-07-01-04

roject Name : Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division. **Date: 29-07-22**

gency : Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

ustomer Reference : BBMP/EE/BTP/WO/02/2021-22

ate of Receipt : 27-07-22

ype of Mix : WMM ( Wet Mix Macadam)

ate of test : 27-07-22

ven Dry Weight : 11000 Grams

| IS Sieve Size(mm) | Weight Retained (gm) | Cumulative Weight Retained (gm) | % Cumulative Weight Retained | % Passing | Spec.I.Vide Table 400.13 MORTH Specification |
|---|---|---|---|---|---|
| 53 | 0 | 0 | 0.0 | 100.0 | 100 |
| 45 | 342 | 342 | 3.1 | 96.9 | 95-100 |
| 22.4 | 2188 | 2530 | 23.0 | 77.0 | 60-80 |
| 11.2 | 2085 | 4615 | 42.0 | 58.0 | 40-60 |
| 4.75 | 2388 | 7003 | 63.7 | 36.3 | 25-40 |
| 2.36 | 1785 | 8788 | 79.9 | 20.1 | 15-30 |
| 0.6 | 638 | 9426 | 85.7 | 14.3 | 8-22 |
| 0.075 | 1201 | 10627 | 96.6 | 3.4 | 0-5 |

The results obtained are satisfactory as per standard requirements.

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬೆಂಗಳೂರು-24

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# TEST RESULTS OF GRADATION FOR WMM

| | | |
|---|---|---|
| ab ID | : | CP-RW-2022-07-01-04 **Date: 29-07-22** |
| roject Name | : | Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division. |
| gency | : | Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045 |
| ustomer Reference | : | BBMP/EE/BTP/WO/02/2021-22 |
| ate of Receipt | : | 27-07-22 |
| ype of Mix | : | WMM ( Wet Mix Macadam) |
| ate of test | : | 27-07-22 |
| ven Dry Weight | : | 11000 Grams |

| IS Sieve Size(mm) | Weight Retained (gm) | Cumulative Weight Retained (gm) | % Cumulative Weight Retained | % Passing | Spec.I.Vide Table 400.13 MORTH Specification |
|---|---|---|---|---|---|
| 53 | 0 | 0 | 0.0 | 100.0 | 100 |
| 45 | 402 | 402 | 3.7 | 96.3 | 95-100 |
| 22.4 | 2286 | 2688 | 24.4 | 75.6 | 60-80 |
| 11.2 | 2377 | 5065 | 46.0 | 54.0 | 40-60 |
| 4.75 | 2875 | 7940 | 72.2 | 27.8 | 25-40 |
| 2.36 | 1201 | 9141 | 83.1 | 16.9 | 15-30 |
| 0.6 | 801 | 9942 | 90.4 | 9.6 | 8-22 |
| 0.075 | 895 | 10837 | 98.5 | 1.5 | 0-5 |

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

# TEST RESULTS OF GRADATION FOR WMM

Lab ID : CP-RW-2022-07-01-04 Date: 29-07-22

Project Name : Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.

Agency : Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

Customer Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 27-07-22

Type of Mix : WMM ( Wet Mix Macadam)

Date of test : 27-07-22

Oven Dry Weight : 10000 Grams

| IS Sieve Size(mm) | Weight Retained (gm) | Cumulative Weight Retained (gm) | % Cumulative Weight Retained | % Passing | Spec.I.Vide Table 400.13 MORTH Specification |
|---|---|---|---|---|---|
| 53 | 0 | 0 | 0.0 | 100.0 | 100 |
| 45 | 258 | 258 | 2.6 | 97.4 | 95-100 |
| 22.4 | 2265 | 2523 | 25.2 | 74.8 | 60-80 |
| 11.2 | 2176 | 4699 | 47.0 | 53.0 | 40-60 |
| 4.75 | 2186 | 6885 | 68.9 | 31.2 | 25-40 |
| 2.36 | 1365 | 8250 | 82.5 | 17.5 | 15-30 |
| 0.6 | 495 | 8745 | 87.5 | 12.6 | 8-22 |
| 0.075 | 876 | 9621 | 96.2 | 3.8 | 0-5 |

* The results obtained are satisfactory as per standard requirements.

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# TEST RESULTS OF GRADATION FOR WMM

Lab ID : CP-RW-2022-07-01-04 Date: 02-07-22

Project Name : Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.

Agency : Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

Customer Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 29-06-22

Type of Mix : WMM ( Wet Mix Macadam)

Date of test : 29-06-22

Oven Dry Weight : 11000 Grams

| IS Sieve Size(mm) | Weight Retained (gm) | Cumulative Weight Retained (gm) | % Cumulative Weight Retained | % Passing | Spec.I.Vide Table 400.13 MORTH Specification |
|---|---|---|---|---|---|
| 53 | 0 | 0 | 0.0 | 100.0 | 100 |
| 45 | 342 | 342 | 3.1 | 96.9 | 95-100 |
| 22.4 | 2188 | 2530 | 23.0 | 77.0 | 60-80 |
| 11.2 | 2085 | 4615 | 42.0 | 58.0 | 40-60 |
| 4.75 | 2388 | 7003 | 63.7 | 36.3 | 25-40 |
| 2.36 | 1785 | 8788 | 79.9 | 20.1 | 15-30 |
| 0.6 | 638 | 9426 | 85.7 | 14.3 | 8-22 |
| 0.075 | 1201 | 10627 | 96.6 | 3.4 | 0-5 |

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

# TEST REPORT OF AGGEGRATE IMPACT VALUE
## IS: 2386 Part IV

| | | |
|---|---|---|
| ab ID | : | CP-RW-2022-07-01-04 Date: 27-07-22 |
| roject Name | : | Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division. |
| gency | : | Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045 |
| ustomer Reference | : | BBMP/EE/BTP/WO/02/2021-22 |
| ate of Receipt | : | 25-07-22 |
| ype of Mix | : | Coarse Aggregate for WMM ( Wet Mix Macadam) |
| ate of test | : | 25-07-22 |

| Sl.No | Particulars of observations | Index | TEST 1 | TEST 2 |
|---|---|---|---|---|
| 1 | Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve) | A | 301.5 | 301.5 |
| 2 | Weight of fraction passing 2.36mm sieve After giving 15 blows | B | 70.2 | 74.0 |
| 3 | weight of fraction retained 2.36mm sieve After giving 15 blows | C | 231.0 | 227.1 |
| 4 | Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made. | A-(B+C) | 0.3 | 0.4 |
| 5 | Aggregate impact value | (B/A)*100 | 23.3 | 24.5 |
| 6 | Aggregate impact value ( Mean of two tests) | Pecentage | 23.9 | |

* The results obtained are satisfactory as per standard requirements.

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

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Certificate No.: TC-5548

# TEST REPORT OF AGGEGRATE IMPACT VALUE
## IS: 2386 Part IV

| | | |
|---|---|---|
| Lab ID | : | CP-RW-2022-07-01-04 Date: 27-07-22 |
| Project Name | : | Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division. |
| Agency | : | Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045 |
| Customer Reference | : | BBMP/EE/BTP/WO/02/2021-22 |
| Date of Receipt | : | 25-07-22 |
| Type of Mix | : | Coarse Aggregate for WMM ( Wet Mix Macadam) |
| Date of test | : | 25-07-22 |

| Sl.No | Particulars of observations | Index | TEST 1 | TEST 2 |
|---|---|---|---|---|
| 1 | Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve) | A | 302.1 | 302.1 |
| 2 | Weight of fraction passing 2.36mm sieve After giving 15 blows | B | 68.1 | 71.2 |
| 3 | weight of fraction retained 2.36mm sieve After giving 15 blows | C | 233.8 | 230.6 |
| 4 | Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made. | A-(B+C) | 0.2 | 0.3 |
| 5 | Aggregate impact value | (B/A)*100 | 22.5 | 23.6 |
| 6 | Aggregate impact value ( Mean of two tests) | Pecentage | 23.1 | |

* The results obtained are satisfactory as per standard requirements.

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ದಂಗಳು-26


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Certificate No.: TC-5548

# DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007 )

b ID : CP-RW-2022-07-01-04 Date: 27-07-22

oject Name : Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.

gency : Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

ustomer Reference : BBMP/EE/BTP/WO/02/2021-22

ate of Receipt : 25-07-22

ype of Mix : Coarse Aggregate for WMM ( Wet Mix Macadam)

ate of test : 25-07-22

Result:

| Index | Percentage of Flakiness and Elongation Index | Secified limits as per MORTH specification table 400-12 |
|---|---|---|
| Flakiness Index | 13.8% | Combined Flakiness & Elongation Index for WMM is Maximum 35% |
| Elongation Index | 12.1% | |
| Combined Flakiness and Elongation Index for WMM | 25.9% | |

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

# DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007 )

| | | |
|---|---|---|
| Lab ID | : | CP-RW-2022-07-01-04 |
| | | Date: 27-07-22 |
| Project Name | : | Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division. |
| Agency | : | Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045 |
| Customer Reference | : | BBMP/EE/BTP/WO/02/2021-22 |
| Date of Receipt | : | 25-07-22 |
| Type of Mix | : | Coarse Aggregate for WMM ( Wet Mix Macadam) |
| Date of test | : | 25-07-22 |

Result:

| Index | Percentage of Flakiness and Elongation Index | Secified limits as per MORTH specification table 400-12 |
|---|---|---|
| Flakiness Index | 14.9% | Combined Flakiness & Elongation Index for WMM is Maximum 35% |
| Elongation Index | 11.5% | |
| Combined Flakiness and Elongation Index for WMM | 26.4% | |

*The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

# DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007 )

| | | |
|---|---|---|
| Lab ID | : | CP-RW-2022-07-01-04 Date: 27-07-22 |
| Project Name | : | Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division. |
| Agency | : | Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045 |
| Customer Reference | : | BBMP/EE/BTP/WO/02/2021-22 |
| Date of Receipt | : | 25-07-22 |
| Type of Mix | : | Coarse Aggregate for WMM ( Wet Mix Macadam) |
| Date of test | : | 25-07-22 |

Result:

| Index | Percentage of Flakiness and Elongation Index | Secified limits as per MORTH specification table 400-12 |
|---|---|---|
| Flakiness Index | 14.6% | Combined Flakiness & Elongation Index for WMM is Maximum 35% |
| Elongation Index | 12.3% | |
| Combined Flakiness and Elongation Index for WMM | 26.9% | |

* The results obtained are satisfactory as per standard requirements.

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